

70/30  
BHWForm C-104  
Rev. 2/01CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL  
MISSOURI DEPARTMENT OF TRANSPORTATION

Contract ID 080229-101 Date 4/22/08  
County Atchison/Holt Route I-29 Job No. J110981 & J11014  
Contractor IDEKER, INC. Original Bid Cost \$14,086,569.43  
Designed By \_\_\_\_\_ By PAUL IDEKER  
Phone (816) 364-3970

VE # 08-30

## 1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Existing: 1.75" SP125B 76-22 over 2" Hot-in-place recycle, 1.75" BP-1 Shoulder (12' lanes w/ shoulders)

Disadvantages: Greater cost, greater use of natural resources

Proposed: Type C U.B.A.W.S. over 2" Hot-in-place recycle, 0.75" BP-3 shoulder (14' &amp; 16' lanes w/ 8' shoulder) Advantages: Less usage of natural resources, greater or equal life cycle

## 2. Estimate of reduction in construction costs.

\$1,834,040.82

## 3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

Potential longer life cycle - decreased maintenance costs

Increased surface drainage - reduces upspray and increases traction for safety

Decrease time required to complete project - less inconvenience to traveling public

## 4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

04/22/08<sup>3</sup>  
(date)

## 5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

05/05/2008

(date)

mat. suppliers will need to begin producing in order to keep on schedule

(effect)

## 6. Dates of any previous or concurrent submission of the same proposal.

n/a

(date and/or dates)

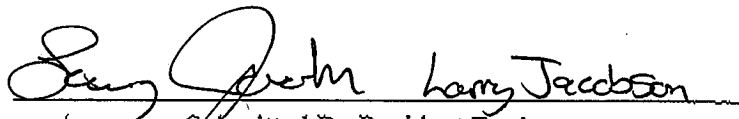
**Additional Comments:**

Please see attached spreadsheet itemizing the potential V.E. savings.  
As per our verbal agreement, V.E. to be divided 70% Modot, 30% Ideker.

**\*\* Portion Below This Line To Be Filled Out by MoDOT \*\***

**Comments:**

See attached note and spread sheet.

  
Submitted By Resident Engineer

4-23-08  
Date

**Comments:**

Concur with RE's recommendations

- ☒ Approval  
☒ Recommended  
☐ Rejection  
☐ Recommended

  
District Engineer

4-29-08  
Date

**Comments:**

Profilograph shall be run after the HIP. Smoothness  
Corrections need to be made prior to to new  
chip surface as no grinding will be allowed  
on its surface.

- ☒ Approval  
☐ Rejection

  
State Operations Engineer BAW

5-6-08  
Date

**Distribution:**

Resident Engineer, District Operations Engineer, State Operations Engineer  
\*Value Engineering Administrator - \*MoDOT, P.O. Box 270, Jefferson City, MO 65102

**Quantity Adjustments For April 21, 2008 Revision/Amendment Letter**

Job No. J11098, Holt County

Quantity changes for pavement section Sta. 792+09 to 797+06.5 (1.75" sp125 mill &amp; fill)

Line Item	Description	Quantity	Unit	Contract Unit \$	Total
	U.B.A.W.S. Type C	-3867	SY	\$ 4.99	\$ (19,296.33)
	BP-3 (3/4")	-29	Tons	\$ 58.48	\$ (1,695.92)
290	Bit. Pavmt Mix BP-1	130	Tons	\$ 134.66	\$ 17,505.80
310	Asphaltic Conc. Mix PG 76-22 (SP125B)	308	Tons	\$ 149.66	\$ 46,095.28
					\$ 42,608.83

Quantity changes for 30' bridge ends (2" sp125 mill &amp; fill) 24' mainline, 4' &amp; 10' shoulder

Line Item	Description	Quantity	Unit	Contract Unit \$	Total
	U.B.A.W.S. Type C	-1400	SY	\$ 4.99	\$ (6,986.00)
	BP-3 (3/4")	-16	Tons	\$ 58.48	\$ (935.68)
290	Bit. Pavmt Mix BP-1	62	Tons	\$ 134.66	\$ 8,348.92
300	Misc. Hot-In-Place Recycle 2"	-1120	SY	\$ 4.09	\$ (4,580.80)
310	Asphaltic Conc. Mix PG 76-22 (SP125B)	108	Tons	\$ 149.66	\$ 16,163.28
330	Hot-In-Place Liquid Asphalt	-392	Gals	\$ 2.18	\$ (854.56)
340	Coldmilling 3" or less	1773	SY	\$ 3.67	\$ 6,506.91
					\$ 17,662.07

Job No. J111014, Atchison County

Quantity changes for 30' bridge ends (2" sp125 mill &amp; fill) 24' mainline, 4' &amp; 10' shoulder

Line Item	Description	Quantity	Unit	Contract Unit \$	Total
	U.B.A.W.S. Type C	-800	SY	\$ 4.95	\$ (3,960.00)
	BP-3 (3/4")	-9	Tons	\$ 57.51	\$ (517.59)
680	Bit. Pavmt Mix BP-1	40	Tons	\$ 126.16	\$ 5,046.40
690	Misc. Hot-in-Place Recycle 2"	-640	SY	\$ 4.09	\$ (2,617.60)
700	Asphaltic Conc. Mix PG 76-22 (SP125B)	72	Tons	\$ 141.16	\$ 10,163.52
720	Hot-In-Place Liquid Asphalt	-224	Gals	\$ 2.18	\$ (488.32)
730	Coldmilling 3" or less	1013	SY	\$ 3.64	\$ 3,687.32
					\$ 11,313.73

**"Revised" I-29 U.B.A.W.S. Value Engineering Proposal**

Holt Co. South I-29 Project					
Original Contract					
Line Item	Description	Original Quantity	Unit	Contract Unit \$	Total
10	Misc. Type 1 Agg. For Base	1590	Tons	\$ 20.73	\$ 32,960.70
210	Modified Coldmilling	19217	SY	\$ 3.61	\$ 69,373.37
290	Bit. Pavmt Mix BP-1	32040.9	Tons	\$ 46.10	\$ 1,477,085.49
300	Misc. Hot-In-Place Recycle 2"	460281	SY	\$ 4.09	\$ 1,882,549.29
310	Asphaltic Conc. Mix PG 76-22 (SP125B)	49227.9	Tons	\$ 58.78	\$ 2,893,615.96
320	Tack Coat	17200	Gals	\$ 1.33	\$ 22,876.00
330	Hot-In-Place Liquid Asphalt	161098.3	Gals	\$ 2.18	\$ 351,194.29
340	Coldmilling 3" or less	8212	SY	\$ 3.67	\$ 30,138.04
350	Coldmilling Greater Than 3"	2842	SY	\$ 4.55	\$ 12,931.10
					\$ 6,772,724.25
Proposed Changes					
Line Item	Description	Original Quantity	Unit	Contract Unit \$	Total
	U.B.A.W.S. Type C	609243.8	SY	\$ 4.99	\$ 3,040,126.56
	BP-3 (3/4")	7493	Tons	\$ 58.48	\$ 438,190.64
10	Misc. Type 1 Agg. For Base	318	Tons	\$ 20.73	\$ 6,592.14
210	Modified Coldmilling	13617	SY	\$ 3.61	\$ 49,157.37
290	Bit. Pavmt Mix BP-1	192	Tons	\$ 134.66	\$ 25,854.72
300	Misc. Hot-In-Place Recycle 2"	459161	SY	\$ 4.09	\$ 1,877,968.49
310	Asphaltic Conc. Mix PG 76-22 (SP125B)	418	Tons	\$ 149.66	\$ 62,258.56
320	Tack	3784	Gal	\$ 1.33	\$ 5,032.72
330	Hot-In-Place Liquid Asphalt	160706	Gals	\$ 2.18	\$ 350,339.08
340	Coldmilling 3" or less	7185.8	SY	\$ 3.67	\$ 26,371.89
350	Coldmilling Greater Than 3"	1109	SY	\$ 4.55	\$ 5,045.95
					\$ 5,886,938.12
					Net Difference \$ 885,786.13

Atchison Co. North I-29 Project					
Original Contract					
Line Item	Description	Original Quantity	Unit	Contract Unit \$	Total
400	Misc. Type 1 Agg. For Base	3672	Tons	\$ 19.78	\$ 72,632.16
600	Modified Coldmilling	12678	SY	\$ 3.59	\$ 45,514.02
680	Bit. Pavmt Mix BP-1	27326.9	Tons	\$ 49.34	\$ 1,348,309.25
690	Misc. Hot-In-Place Recycle 2"	393909.5	SY	\$ 4.09	\$ 1,611,089.86
700	Asphaltic Conc. Mix PG 76-22 (SP125B)	42582	Tons	\$ 59.19	\$ 2,520,428.58
710	Tack Coat	14950	Gals	\$ 1.33	\$ 19,883.50
720	Hot-In-Place Liquid Asphalt	137868.6	Gals	\$ 2.18	\$ 300,553.55
730	Coldmilling 3" or less	6958	SY	\$ 3.64	\$ 25,327.12
					\$ 5,943,738.03
Proposed Changes					
Line Item	Description	Original Quantity	Unit	Contract Unit \$	Total
	U.B.A.W.S. Type C	533473.5	SY	\$ 4.95	\$ 2,640,693.83
	BP-3 (3/4")	6441	Tons	\$ 57.51	\$ 370,421.91
400	Misc. Type 1 Agg. For Base	734	Tons	\$ 19.78	\$ 14,518.52
600	Modified Coldmilling	6767	SY	\$ 3.59	\$ 24,293.53
680	Bit. Pavmt Mix BP-1	40	Tons	\$ 126.16	\$ 5,046.40
690	Misc. Hot-In-Place Recycle 2"	393269.5	SY	\$ 4.09	\$ 1,608,472.26
700	Asphaltic Conc. Mix PG 76-22 (SP125B)	72	Tons	\$ 141.16	\$ 10,163.52
710	Tack Coat	3887	Gals	\$ 1.33	\$ 5,169.71
720	Hot-In-Place Liquid Asphalt	137644.6	Gals	\$ 2.18	\$ 300,065.23
730	Coldmilling 3" or less	4571	SY	\$ 3.64	\$ 16,638.44
					\$ 4,995,483.34
					Net Difference \$ 948,254.69

Total Difference (Combined Savings) \$ 1,834,040.82

As discussed at our March 17, 2008 meeting and in my letter dated March 27, 2008, the concept of the value-engineering proposal was accepted. (See attached letter.)

All items were addressed in the letter and proposal except; the ramp quantities are included in the proposed change from 1 ¾ inch SP125 to ¾ Nova Chip with a ¾ inch BP-3 shoulder. I have reviewed the ramp, acceleration and deceleration lanes and think the change will work with the addition of minor repairs to failed shoulders.

The plans also show Hot-in-Place Recycling up to the bridge ends, and a cap of 1 ¾ inches of SP125 B mix. Dustrol, Inc. has stated they cannot HIP up to the bridge ends, but must stop about 30 feet away to turn the burners off and not cause damage to the bridge. Ideker has revised their proposal to include 1 ¾ inches of SP125 B mix within 30 feet of bridges. Along with this proposed change, they have proposed a change to the BP-1 and SP125 B unit prices as follows:

<u>Holt County</u>	<u>Bid</u>	<u>New Cost</u>
Line 290 BP-1	\$46.10	\$134.66 per ton
Line 310 SP125 B	\$58.78	\$149.66 per ton

<u>Atchison County</u>	<u>Bid</u>	<u>New Cost</u>
Line 680 BP-1	\$49.34	\$126.16 per ton
Line 700 SP125 B	\$59.19	\$141.16 per ton

The costs are high, but I believe applicable for the short paving, handwork required and small quantities. This amounts to an additional cost of \$666.01 per bridge end in Holt County (14 locations) and \$550.72 in Atchison County (8 locations) compared to the original contract costs and items.

The cost of the Type C UBAWS is proposed at \$4.99 and \$4.95 per square yard for the Holt and Atchison County jobs, respectively. This is less than a 5% increase from the \$4.77 per square yard price average in 2007.

The cost of the BP-3 mix is proposed at \$58.48 and \$57.51 per ton, respectively. This is a 7.5% to 6.0% increase from the \$54.33 per ton price average in 2007.

If excessive rutting is observed during construction, I recommend re-evaluating the Nova Chip treatment on the Hot-in-Place recycled asphalt.

The overall changes are estimated to be \$1,834,040.82. I have reviewed the quantities and believe the "coldmilling 3 inches or less" is a greater reduction than Ideker estimated. Attached is a spreadsheet detailing the changes. The anticipated 70/30 percent cost sharing will be \$1,290,966.59 for MoDOT and \$553,271.40 for Ideker.

I recommend we accept the above prices as submitted.

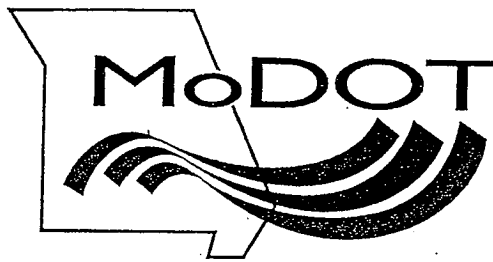


Larry Jacobson  
Resident Engineer

jb

4/23/2008

Missouri  
Department  
of Transportation



Maryville Project Office  
28320 250th Street  
Maryville, MO 64468  
660-582-3300  
Fax 660-562-2461  
Toll free 1-888-ASK MoDOT  
[www.modot.org](http://www.modot.org)

Larry Jacobson, Resident Engineer



2007 Missouri Quality Award Winner

March 27, 2008

Ideker, Inc.  
Mr. Paul Ideker  
P.O. Box 7140  
St. Joseph, MO 64507

Subject: Value Engineering Proposal #1  
Contract ID: 080229-101  
Job No(s): J110981 and J111014  
Route: I-29  
County(s): Holt and Atchison

Dear Mr. Ideker,

We have reviewed your conceptual proposal submitted on March 17, 2008, by email, for the subject projects. You proposed to replace the SP125B surface on the mainline with Type C ultrathin bonded wearing surface and the BP-1 on the shoulder with a fog seal.

During our meeting on March 26<sup>th</sup>, the following option was proposed:

1. Replace the 1 ¾ inch SP125B mix with ¾ inch ultrathin bonded wearing surface Type C novachip. Sixteen (16) foot wide passing lanes and inside shoulders, fourteen (14) foot wide driving lanes.
2. Replace the 1 ¾ inch BP-1 shoulder with ¾ inch BP-3 shoulder.
3. Keep the profilograph specification requirement on the mainline pavement.
4. Use the slope treatment rock only where the drop off warrants. This item is anticipated to be eliminated.
5. The VE savings will be split: 70% - MoDOT, 30% - Ideker.

The anticipated savings for items 1 and 2 is \$1.7 million total.

We are approving your conceptual proposal as revised during our meeting.

We are currently reviewing the jobs to get an accurate measured area for the novachip to be applied. The SP125B and BP-1 will be reduced by the mainline quantities. There is currently no plan change for the ramps, therefore, the SP125B and BP-1 quantities for the ramps will remain.

The following line items will be effected:

<u>Line</u>	<u>Description</u>
290	Bituminous pavement mixture BP-1
310	Asphaltic concrete mixture PG 72-22 (SP125B mix)
680	Bituminous pavement mixture BP-1
700	Asphaltic concrete mixture PG 76-22 (SP125 mix)

*Our mission is to provide a world-class transportation experience that delights our customers and promotes a prosperous Missouri.*

Additional Items:

Item code 413-32.00 Ultrathin bonded wearing surface, Type C paid by the square yard for each project.

Item code 401-12.13 Bituminous pavement mixture PG 64-22, paid by the ton for each project.

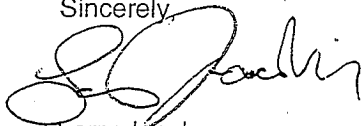
The following items may be adjusted based on slopes and rundown lengths:

<u>Line</u>	<u>Description</u>
010	Type 1 Aggregate for Base
210	Modified cold milling (depth transitions)
340	Cold milling...(3 inches or less)
350	Cold milling...(greater than 3 inches)
400	Type 1 Aggregate for Base
600	Modified cold milling (depth transitions)
730	Cold milling...(3 inches or less)

Please provide a unit price for the ultrathin bonded alternate wearing surface (UBAWS) and BP-3.

If you should have any questions or concerns, please feel free to contact me.

Sincerely,



Larry Jacobson  
Resident Engineer

jb

# **Idekers Proposal**

Line	Description	Unit Cost	Plan	Plan costs	New proposed cost	New proposed quantity	New proposed costs
UBAWS Type C							
BP-3			0	\$0.00	\$4.99	609243.8	\$3,040,126.56
10 Misc. Type 1 Agg for Base		\$20.73	1590	\$32,960.70	\$58.48	7493	\$438,190.84
210 Modified Coldmilling		\$3.61	19217	\$69,373.37		318	\$6,592.14
290 Bit. Pavement Mix BP-1		\$46.10	32040.9	\$1,477,085.49		13617	\$49,157.37
300 Misc. Hot In Place Recycle 2 "		\$4.09	460281	\$1,882,549.29	\$134.66	192	\$25,854.72
310 Asphaltic Concrete Mix, PG76-22 (SP125B)		\$58.78	49227.9	\$2,893,615.96		459161	\$1,877,968.49
320 Tack		\$1.33	17200	\$22,876.00	\$149.66	416	\$62,258.56
330 Hot In Place Liquid Asphalt		\$2.18	161098.3	\$351,194.29		3784	\$5,032.72
340 Coldmilling 3" or less		\$3.67	8212	\$30,138.04		160706	\$350,339.08
350 Coldmilling Greater than 3"		\$4.55	2842	\$12,931.10		7185.8	\$26,371.89
UBAWS Type C							
BP-3			0	\$0.00	\$4.95	533473.5	\$2,640,693.83
400 Misc. Type 1 Agg for Base		\$19.78	3672	\$72,632.16	\$57.51	6441	\$370,421.91
600 Modified Coldmilling		\$3.59	12678	\$45,514.02		734	\$14,518.52
680 Bit. Pavement Mix BP-1		\$49.34	27326.9	\$1,348,309.25	\$126.16	6767	\$24,293.53
690 Misc. Hot In Place Recycle 2 "		\$4.09	393909.5	\$1,611,089.86		40	\$5,046.40
700 Asphaltic Concrete Mix, PG76-22 (SP125B)		\$59.19	42582	\$2,520,428.58	\$141.16	393269.5	\$1,608,472.26
710 Tack		\$1.33	14950	\$19,883.50		72	\$10,163.52
720 Hot In Place Liquid Asphalt		\$2.18	137868.6	\$300,553.55		3887	\$5,169.71
730 Coldmilling 3" or less		\$3.64	6958	\$25,327.12		137644.6	\$300,065.23
Total				\$12,716,462.28		4571	\$16,638.44

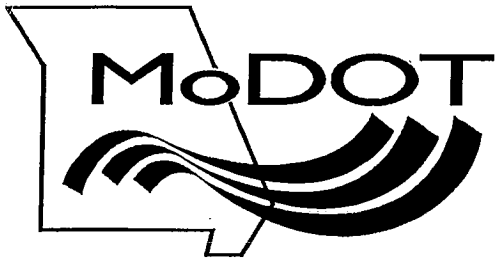
MoDOT      Ideker  
70%      30%  
-\$1,283,828.57    -\$550,212.25

# **MoDOT's Change of the proposal for the Coldmilling difference**

Line	Description	Unit Cost	Plan	Plan costs	New proposed cost	New proposed quantity	New proposed costs
UBAWS Type C							
BP-3			0	\$0.00	\$4.99	609243.8	\$3,040,126.56
10 Misc. Type 1 Agg for Base		\$20.73	1590	\$32,960.70	\$58.48	7493	\$438,190.84
210 Modified Coldmilling		\$3.61	19217	\$69,373.37		318	\$6,592.14
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330 Hot In Place Liquid Asphalt		\$2.18	161098.3	\$351,194.29		3784	\$5,032.72
340 Coldmilling 3" or less		\$3.67	8212	\$30,138.04		160706	\$350,339.08
350 Coldmilling Greater than 3"		\$4.55	2842	\$12,931.10		5412	\$19,862.04
UBAWS Type C							
BP-3			0	\$0.00	\$4.95	533473.5	\$2,640,693.83
400 Misc. Type 1 Agg for Base		\$19.78	3672	\$72,632.16	\$57.51	6441	\$370,421.91
600 Modified Coldmilling		\$3.59	12678	\$45,514.02		734	\$14,518.52
680 Bit. Pavement Mix BP-1		\$49.34	27326.9	\$1,348,309.25	\$126.16	6767	\$24,293.53
690 Misc. Hot In Place Recycle 2 "		\$4.09	393909.5	\$1,611,089.86		40	\$5,046.40
700 Asphaltic Concrete Mix, PG76-22 (SP125B)		\$59.19	42582	\$2,520,428.58	\$141.16	393269.5	\$1,608,472.26
710 Tack		\$1.33	14950	\$19,883.50		72	\$10,163.52
720 Hot In Place Liquid Asphalt		\$2.18	137868.6	\$300,553.55		3887	\$5,169.71
730 Coldmilling 3" or less		\$3.64	6958	\$25,327.12		137644.6	\$300,065.23
Total				\$12,716,462.28		3558	\$12,951.12

MoDOT      Ideker  
70%      30%  
-\$1,290,966.59    -\$553,271.40





## ***FAX Transmission***

### **Missouri Department of Transportation**

Project Office

District 1

Construction & Materials

To: Brian A Williams

Title: Construction & Materials Liaison Eng. Fax: 573-526-4354

From: Troy Slagle/Lisa Kellison

Questions? Call: 816-387-2442

Fax: 816-387-2486

Date: 05/02/2008

Time: 9:45 AM

Pages: 14 (including this one)

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**Message:** Please find enclosed information regarding the Job J110981, J111014 Route I-29 Atchison & Holt Counties.

Hard copy to follow in the mail.

If you have any questions, please call.

Thank you,

Lisa Kellison  
Office Assistant  
Construction & Materials - D1  
816-387-2442



# MEMORANDUM

Missouri Department of Transportation

Operations  
District 1

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**TO:** Dave Ahlvers  
Brian A. Williams

**FROM:** Troy Slagle *TS*  
Operations Engineer

**DATE:** April 30, 2008

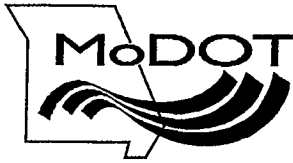
**SUBJECT:** Value Engineering Proposal  
Contract I.D.: 080229-101  
Job No.: J110981, J111014  
Route: I-29  
County: Atchison & Holt Counties

Please find attached the Construction Value Engineering Proposal submitted by Ideker Inc. for the above project to Larry Jacobson, Resident Engineer in Maryville, Missouri.

I have reviewed the proposal and Larry's suggested comments and concur providing the supporting documentation asked for in my recommended approval is received. Please review and return with your recommendation and signature to the district office.

If more information is required for this proposal, please advise.

File




## MEMORANDUM

Missouri Department of Transportation  
Maryville Project Office  
District 1

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**TO:** Troy Slagle-1ca

**FROM:** Larry Jacobson   
Resident Engineer

**DATE:** April 23, 2008

**SUBJECT:** Value Engineering Proposal #1  
Contract ID 080229-101  
Job No.(s): J1I0981, J1I1014  
Route 29, Holt and Atchison Counties

Please find the attached information pertaining to the Value Engineering Proposal on the subject project. A hard copy will follow by mail.

If you should have any questions, I can be reached at 660 582-3300.

jb



# IDEKER, INC.

Earth Moving • Concrete • Asphalt

Date 4/22/08

Total Number of Pages 7 (Including Cover Sheet)

Deliver To Larry Jacobson

Company Name MODOT

Fax Number 660-562-2461

Sending Party Paul

Message (If Any) :

*Hard copy to follow by mail.*



## IDEKER, INC.

Earth Moving • Concrete • Asphalt

April 21, 2008

Larry Jacobson, Resident Engineer  
MoDOT, Maryville Project Office  
28320 250<sup>th</sup> Street  
Maryville, MO 64468

Re: Revision/Amendment to Value Engineering Proposal  
Contract ID: 080229-101  
Route I-29  
Holt & Atchison Co.

Dear Mr. Jacobson:

As per our conversations, I am revising/amending the value engineering proposal to address your concerns regarding the bridge approaches on the above referenced project.

Job Number J110981, Holt County plan sheets 56, 58, and 59 and Job Number J111014, Atchison County plan sheet 33 indicate hot-in-place recycle beginning and ending at the bridge ends. Due to the extreme amount of heat generated by the hot-in-place recycle process, Dustrol has expressed concerns that constructing the h.i.p. recycle per plan could potentially damage the existing bridge ends. Per conversations with Ron Wilson of Dustrol, he has indicated they can h.i.p. recycle up to 30 feet from each end of the bridges. Therefore, to address your concern about pavement structure at the bridge ends, Ideker is proposing to mill and replace 2" with SP125B 76-22 for approximately 30' on each side of each bridge.

I am also revising the v.e. quantities and prices to reflect the section of pavement between station 792+09 to 797+06.50. To address your concerns of the u.b.a.w.s in this section, we will construct per original plan. The original plans show this section to be a 1.75" SP125 pg76-22 mainline and BP-1 shoulder mill and replace.

The coldmilling quantities have been updated to reflect the quantities you sent me in the letter dated April 16, 2008 and the additional coldmilling for the bridge ends.

Due to the small quantities and numerous locations, I have revised the prices for the following items:

Job No. J1I0981, Holt County:

Line item 290	Bit. Pavement Mix BP-1	\$134.66 per ton
Line item 310	Asph. Conc. Mix pg76-22 SP125B	\$149.66 per ton

Job No. J1I1014, Atchison County:


Line item 680	Bit. Pavement Mix BP-1	\$126.16 per ton
Line item 700	Asph. Conc. Mix pg76-22 SP125B	\$141.16 per ton

The revised anticipated savings for the value engineering proposal is \$1,834,040.82

Please see attached a summary of all the changes along with a revised v.e. proposal.

If you have any further questions, please do not hesitate to call.

Sincerely,

  
Paul Ideker

# VALUE ENGINEERING CHECK SHEET

## *TYPE OF WORK*

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. \_\_\_\_\_

## *SUMMARY OF PROPOSAL*

(If needed, condense summary to a couple of lines)

This VE changes to driving surface from 1 ¾" superpave to a ¾" nova chip. It also reduces the shoulder depth from 1 ¾" BP-1 mix to a ¾" BP-3 mix. This is a 70/30 cost share.

## *SCANNING OF DOCUMENT*

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

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